

Amendment by virtue of the PCT Art.34.

Clean Version

[DOCUMENT NAME] SCOPE OF CLAIM FOR PATENT

5 **1** (Amended) A mobile device having wireless antennas in a
wireless communication network having a plurality of base
stations, characterized in including:

two or more antennas installed separately at an extent
that the base station of which radio wave intensity
10 becomes maximum differs antenna by antenna in a case where
the mobile device has stood still in the vicinity of a
boundary of wireless areas;

a communication means for simultaneously utilizing
said two or more antennas, thereby to simultaneously make
15 communication with a plurality of the base stations;

means for detecting a transmission/reception state of
each antenna; and

means for performing a hand-over process based upon
difference of said transmission/reception state of each of
20 said antennas.

2 (Cancel)

3 The mobile device according to claim 1, characterized
25 in that said mobile device is a vehicle.

4 The mobile device according to claim 1, characterized
in that said mobile device is a train.

5 5 The mobile device according to claim 1, characterized
in that said mobile device is a ship.

6 The mobile device according to claim 1, characterized
in raising a communication reliability by, in a case where
10 a set of base stations with which communication is
possible via the antenna differ antenna by antenna, making
communication with respective separate base stations.

7 (Amended)A mobile device having wireless antennas in a
15 wireless communication network having a plurality of base
stations, characterized in including:

two or more antennas installed separately at an extent
that the base station of which a communication quality
becomes most excellent differs antenna by antenna in a
20 case where the mobile device has stood still in the
vicinity of a boundary of wireless areas;

a communication means for simultaneously utilizing
said two or more antennas, thereby to simultaneously make
communication with a plurality of the base stations;

25 means for detecting a transmission/reception state of

each antenna; and

means for performing a hand-over process based upon difference of said transmission/reception state of each of said antennas.

5

8 (Cancel)

9 The mobile device according to claim 7, characterized in that said mobile device is a vehicle.

10

10 The mobile device according to claim 7, characterized in that said mobile device is a train.

11 The mobile device according to claim 7, characterized
15 in that said mobile device is a ship.

12 The mobile device according to claim 7, characterized in raising a communication reliability by, in a case where a set of base stations with which communication is
20 possible via the antenna differ antenna by antenna, making communication with respective separate base stations.

13 (Amended)A mobile device having wireless antennas in a wireless communication network having a plurality of base
25 stations, characterized in including:

two or more antennas installed separated at an extent
that the base station of which a communication quality
becomes most excellent differs antenna by antenna in a
case where the mobile device has stood still in the
5 vicinity of a boundary of wireless areas;

two or more transmission/reception means mounted
responding to each of said antennas;

a communication means for simultaneously utilizing
said two or more antennas and said two or more
10 transmission/reception means, thereby to simultaneously
make communication with a plurality of the base stations;

means for detecting a transmission/reception state of
each antenna; and

means for performing a hand-over process based upon
15 said transmission/reception state of each of said antennas.

14 (Cancel)

15 The mobile device according to claim 13, characterized
20 in that said mobile device is a vehicle.

16 The mobile device according to claim 13, characterized
in that said mobile device is a train.

25 **17** The mobile device according to claim 13, characterized

in that said mobile device is a ship.

18 The mobile device according to claim 13, characterized
in raising a communication reliability by, in a case where
5 a set of base stations with which communication is
possible via the antenna differ antenna by antenna, making
communication with respective separate base stations.

19 (Cancel)

10

20 (Amended) A method of arranging wireless interfaces,
characterized in including the steps of: arranging two or
more antennas separately at an extent that the base
station of which a communication quality becomes most
15 excellent antenna by antenna in a case where a mobile
device has stood still in the vicinity of a boundary of
wireless areas; mounting two or more
transmission/reception means correspondingly to each
antenna; and arranging wireless interfaces so that said
20 two or more antennas and said two or more
transmission/reception means are simultaneously utilized,
thereby to simultaneously make communication with a
plurality of the base stations and performing a hand-over
process based upon difference of said
25 transmission/reception state of each of said antennas.

21 (Amended) A hand-over method of mobile telecommunications, characterized in including the steps of: detecting a difference of transmission/reception state
5 of two or more antennas mounted separately on a mobile body at an extent that a base station of which radio wave intensity becomes maximum differs antenna by antenna in a case where the mobile body has stood still in the vicinity of a boundary of wireless areas; and performing a hand-
10 over process to the base station of the antenna where the radio wave intensity becomes strong with movement.

22 (Amended) A hand-over method of mobile telecommunications, characterized in including the steps
15 of: detecting a difference of transmission/reception state of two or more antennas mounted separately on a mobile body at an extent that a base station of which a communication quality becomes most excellent differs antenna by antenna in a case where the mobile body has
20 stood still in the vicinity of a boundary of wireless areas; and performing a hand-over process to the base station of the antenna where the radio wave intensity becomes strong with movement.